AO 93 (Rev. 11/13) Search and Seizure Warrant

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17 JAN 13 PM 3:56

for the

Southern District of Ohio

U.S. DISTRICT COURT SOUTHERN DIST DHIO WEST DIV CINCINNATI

Southern Dis	Strict of Onio				AN D	ST D	RA	DIST	OF
In the Matter of the Search of (Briefly describe the property to be searched or identify the person by name and address) One (1) ELECTRONIC STORAGE DEVICE FURTHER DESCRIBED IN ATTACHMENT A) Case No.))		0.7.6) pummls	7	MJ		2		W LA
SEARCH AND SE	EIZURE WAI	RRA	NT						

DEGOTIBED IN ATTAOLIMENT A)		
SEARCH .	AND SEIZURE	WARRANT	
To: Any authorized law enforcement officer			
An application by a federal law enforcement of the following person or property located in the (identify the person or describe the property to be searched and g	Southern	y for the government req District of	uests the search Ohio
See Attachment A	re us recurrent.		
I find that the affidavit(s), or any recorded test described above, and that such search will reveal (ident.) See Attachment B	timony, establish pr ify the person or describ	obable cause to search and the property to be seized):	nd seize the person or property

	MMANDED to execute	e this warrant on or	beforeJa	inuary 27, 2017	(not to exceed 14 days)
in the daytime 6:	00 a.m. to 10:00 p.m.	☐ at any time in	the day or night b	ecause good cause l	has been established.
Unless delayed n person from whom, or from property was taken.	otice is authorized belom whose premises, the	ow, you must give e property was take	a copy of the warrant on, or leave the cop	ant and a receipt for by and receipt at the	the property taken to the place where the
The officer execu as required by law and pr	nting this warrant, or are comptly return this war	n officer present du rant and inventory	to	of the warrant, mus Hon. Stephanie K. I (United States Magistra	
§ 2705 (except for delay of property, will be searched	S.C. § 3103a(b), I find of trial), and authorized or seized (check the apport to exceed 30)	the officer executir ropriate box)	ng this warrant to d	delay notice to the p	risted in 18 U.S.C. erson who, or whose
Date and time issued:	3:08 PM, Jan 13	3, 2017	Stephan	e H. Bown Judge's signatu	12N ire

City and state:

Cincinnati, Ohio

Hon. Stephanie K. Bowman, U.S. Magistrate Judge

Printed name and title

AO 93 (Rev. 11/13) Search and Seizure Warrant (Page 2)

		Return	
se No.:		Date and time warrant executed:	Copy of warrant and inventory left with:
entory made in th	e presence	of:	
entory of the proj	erty taken	and name of any person(s) seized:	
		Certification	
		Certification	
I declare unde	r nenalty of	Charjum that this inventory is comment	-1
nated judge.	r penanty of	perjury that this inventory is correct a	and was returned along with the original warrant to the
			Executing officer's signature
			Printed name and title

AO 106 (Rev. 04/10) Application for a Search Warrant

FILED RICHARD W.MAGEL CLERK OF COURT

UNITED STATES DISTRICT COURT

17 JAN 13 PM 3:56

for the Southern District of Ohio

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U.S. BISTAICT COURT SOUTHERN DIST OHIO WEST DIV CINCINNATI

In the Matter of the Search of (Briefly describe the property to be searched or identify the person by name and address)

or identify the person by name and address)	Core No
One (1) ELECTRONIC STORAGE DEVICE FURTHER DESCRIBED IN ATTACHMENT A	Case No. 1 17 M.J - 28
APPLICATION F	OR A SEARCH WARRANT
I a federal law enforcement of	ney for the government, request a search warrant and state under the following person or property (identify the person or describe the
located in the Southern District of person or describe the property to be seized):	Ohio , there is now concealed (identify the
See Attachm	eent B
The basis for the search under Fed. R. Crim. P. of evidence of a crime;	
contraband, fruits of crime, or other item	ns illegally possessed;
property designed for use, intended for use	use, or used in committing a crime;
a person to be arrested or a person who in	is unlawfully restrained.
The search is related to a violation of:	
Code Section	Offense Description
18 USC 2251, 2252 Illegal production,	distribution, receipt and possession of child pornography
The application is based on these facts:	
See Atta	ched Affidavit
Continued on the attached sheet.	
Delayed notice of days (give exact end under 18 U.S.C. § 3103a, the basis of which is	ding date if more than 30 days: s set forth on the attached sheet.
	- Le K
	Applicant's signature
	Jason Keams, Special Agent, HSI
S	Printed name and title
Sworn to before me and signed in my presence. via electronic means.	
Date: Jan 13, 2017	Stephanie H. Bowman
GI.	Judge's signature
City and state: Cincinnati, Ohio	Hon. Stephanie K. Bowman, U.S. Magistrate Judge
	Printed name and title

IN THE UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF OHIO WESTERN DIVISION

IN THE MATTER OF THE SEARCH OF: One (1) ELECTRONIC STORAGE DEVICE FURTHER DESCRIBED IN ATTACHMENT A

Affidavit In Support Of An Application Under Rule 41 For A Warrant To Search And Seize

I, Jason Kearns, being first duly sworn, hereby depose and state as follows:

INTRODUCTION AND AGENT BACKGROUND

- 1. I make this affidavit in support of an application under Rule 41 of the Federal Rules of Criminal Procedure for a search warrant authorizing the examination of property— one (1) electronic device—which is currently in law enforcement possession, and the extraction from that property of electronically stored information described in Attachment B.
- 2. I am a Homeland Security Investigations (HSI) Special Agent (SA), assigned to Cincinnati, Ohio. I have been employed with HSI as a Special Agent since September, 2005. As part of my duties as an HSI Special Agent, I investigate criminal violations relating to child exploitation and child pornography including violations pertaining to the illegal production, distribution, receipt and possession of child pornography, in violation of 18 U.S.C. §§ 2251, 2252 and 2252A. I have received training in the areas of child pornography and child exploitation, and have had the opportunity to observe and review numerous examples of child pornography (as defined in 18 U.S.C. § 2256) in all forms of media including computer media. In addition, I am a graduate of the Federal Law Enforcement Training Center (FLETC) Criminal Investigator Training Program (CITP), and Immigration and Customs Enforcement Special Agent Training (ICE-SAT), where I received training relative to conspiracy investigations, child pornography and

exploitation investigations, general smuggling investigations, smuggling of arms and strategic technology, confidential source handling, drug identification, federal drug law, and various surveillance and investigative techniques.

3. This affidavit is intended to show only that there is sufficient probable cause for the requested warrant and does not set forth all of my knowledge about this matter.

IDENTIFICATION OF THE DEVICE TO BE EXAMINED

- 4. The property to be searched is:
 - A Toshiba Satellite P745 laptop bearing serial number 2C382319K, herein referred to as "Device."
- 5. The applied-for warrant would authorize the forensic examination of the Device for the purpose of identifying electronically stored data particularly described in Attachment B.

PROBABLE CAUSE

6. On December 23, 2014, the affiant received information from Detective Ken Volz of the Springfield Township Police Department (STPD). Detective Volz advised that they had a possible victim of child pornography in their area. Detective Volz further advised that the alleged suspect involved in coercing a minor to produce child pornography was was identified as a suspect in a previous HSI investigation. Detective Volz indicated that the incidents happened on or around December 19 and 20, 2014.

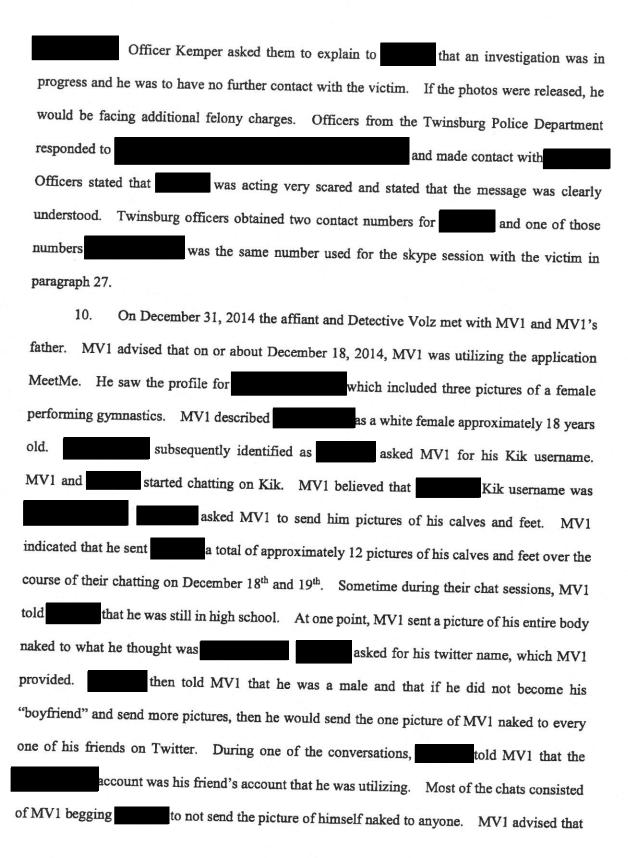
7. On December 24, 2014, the affiant conducted queries on in several Law Enforcement Indices. The affiant verified that was a previous suspect in an HSI investigation out of New Haven, Connecticut. A query of the Ohio Law Enforcement Gateway (OHLEG) for a valid Ohio driver's license was positive. OHLEG provided the following information on a valid Ohio driver's license:

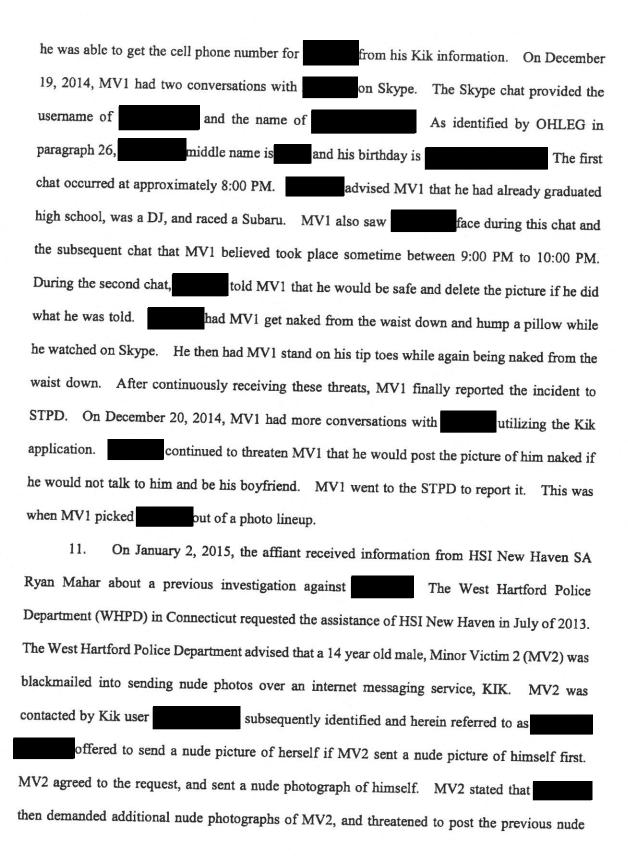


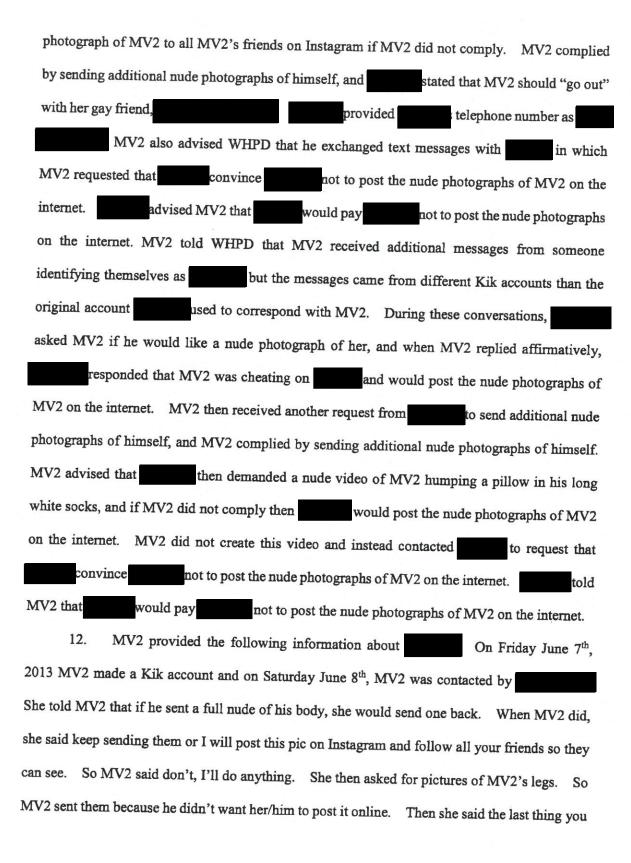
On December 31, 2014, the affiant met with Detective Volz at the STPD. 8. Detective Volz provided the affiant with a copy of the STPD report from the December 19th and 20th, 2014 incident. The following is a synopsis from the STPD report by Officer Martin Case on December 19th. The name of the victim was changed to Minor Victim 1 (MV1). The Hamilton County Communications Center received a text message from a sixteen year old boy stating that an adult male had explicit photos of the juvenile and was threatening to release them. Officer Case responded to the residence and was met at the door by the juvenile in question who identified himself as MV1. Officer Case explained to MV1's father that he needed to speak to his son regarding a crime that had occurred, but would fill him in as soon as he had a chance to speak to MV1 in confidence. MV1's father agreed. Officer Case then went to his patrol car and spoke with MV1 regarding the matter. MV1 explained that initially he was approached on a social media site called MeetMe. MV1 stated that the suspect was portraying himself as a young female under the handle The two began a conversation which led into MV1 sending nude photos of himself to Shortly thereafter the suspect made it known that he was not a young female, but in fact an adult male. The suspect then began stating that if MV1 did not agree to be his "boyfriend", he would post the explicit photos to all of MV1's twitter followers. MV1 then showed Officer Case the text messages between the two. The text messages were in short MV1 begging the suspect not to release the photos. MV1 stated that on December 19, 2014 he skyped with the suspect who appeared to be a black male or biracial male with a beard which appeared to be in his twenties. MV1 could only provide a Skype handle and the aforementioned MeetMe handle. MV1 also stated that he believed the

Skype of Based on the information provided by MV1 and the phone number provided, Officer Case was able to locate a in the Twinsburg, Ohio. Harrison also fit the description provided by MV1.

On December 20, 2014, STPD Officer Patrick Kemper responded to the station to 9. see a complainant in the lobby. Officer Kemper met with MV1 who stated that they had previously reported an incident to Officer Case and additional messages had been sent to the victim. MV1 stated that he has been receiving text messages from the suspect all day and that after he failed to respond in a timely manner, the suspect stated he was going to post the pictures. After begging him not to post them, the suspect finally agreed not to. Officer Kemper spoke with Officer Case and Sargent Peterson about the incident and was asked to show a line up to MV1. After explaining the instructions to MV1, he began looking at the pictures. Upon opening folder number 4, MV1 stopped and gasped and stated that photo number 4 was the suspect. The individual in photo number 4 was Officer Kemper asked him to look at the rest of the pictures before making a final decision. MV1 looked at the rest of the folders and then began looking through them once again, stopped at number 4, and stated he was 70% sure that was the suspect. When asked what about the pictures made him think that was the suspects, he stated that his hair and his facial hair were the same. Officer Kemper asked him what if anything made him unsure and he stated that he would recognize his voice. While Officer Kemper was searching the suspect through OHLEG, Harrison continued texting MV1 and continued to threaten to post the pictures online. MV1 became emotional and began crying in the lobby of the police department. After locating the suspect in OHLEG, Officer Kemper found an address in Twinsburg, Ohio. Officer Kemper contacted the Twinsburg Police Department and after briefing them on the investigation, asked them to attempt to locate



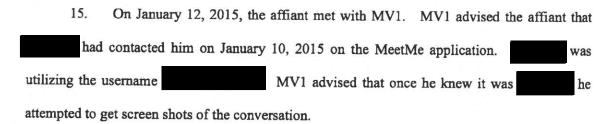


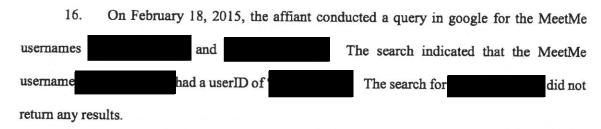


	have to do is "go out" with my gay friend. So MV2 did. He knew his name as
	MV2 started texting to him and every time it got out of hand. MV2 could not persuade her to not
	post the naked pictures. was saying that he was going pay her money not to post online.
	Then she made a new account and asked MV2 if he wanted pics and MV2 said yes. She said
	"that was a test you cheated on him so now Im posting it, bye". She made a new account with a
	different profile picture and a different name. Then she kept asking MV2 for pics of my legs.
	So MV2 sent pics of his legs. Also, twice she said that if MV2 does not send a video of himself
	naked, humping a pillow in long socks then she was going to post it. MV2 did not send her the
	video. MV2 went to the guy named and he said that he would handle it and pay
	her again like he did the first time but he never did. It stopped there and MV2 did not hear from
95	them. MV2 did not know if she posted the pictures on Instagram because he deleted Kik on
- 1	Saturday June 8th at 12:00. She also said that she was from Cleveland, Ohio.
1	me his number and his last name and middle name and his phone number is
	13. On July 26, 2013, SA Mahar sent a Department of Homeland Security (DHS)
5	summons to Verizon requesting subscriber information and call history for telephone number
	from 8/1/12 - 7/22/13. On August 10, 2013, Verizon Wireless provided
iı	in response to a DHS Summons
re	equesting subscriber information and call detail records. Verizon Wireless revealed that
te	is one of four telephone numbers listed in account number
	which is subscribed to
	Information provided by Verizon Wireless also indicates that telephone number
	is assigned to Device Identifier Searches in law enforcement databases
co	inducted by SA Mahar revealed that a relative of

is the same first and middle name provided by the suspect, On August 29, 2013, Twinsburg Police Department (TPD) Detectives went to 14. Twinsburg High School at 10084 Ravenna Road, in the City of Twinsburg to arrest This arrest was based on the information from the HSI New Haven investigation. was located, arrested, and transported back to TPD. TPD Detectives took the interview room in the detective bureau where he was interviewed. was read the Warning and Waiver of Rights form. read the Waiver and then signed the form. admitted that he currently had naked pictures of juvenile males on his phone. He also admitted that he has had a lot of naked pictures of juvenile males on his IPhone that he deleted. that he has sent and received a lot of naked pictures, too many to count or remember, using his Phone. uses the screen name of filthasorusrex when chatting on line. He has chatted with about 20-30 people at a time. has made up fictitious names and profiles of people to have the victims send more naked photos to him. Two of those names being mode of operation would be to contact an unknown party that he met on line, start a conversation with that person and after about 10 minutes, ask for a nude picture to be sent to him. If a picture was sent, he would tell the person that he was in a text conversation with, "Send me another one or I will send that one to your contact list." would then introduce himself as someone else, through texting, and ask for pictures to be sent to him or help that person with not sending the naked picture to the other person. (Both of which were admitted that he opened a KIK.COM account and has used that to communicate with different people from all over the United States. stated that he is in a gay relationship with another male in Twinsburg. would receive up to approximately 10 photos per day of naked full body shots of male juveniles. stated that his IPhone number is He is the only user on the phone and his mother or father pays the bill every month.

has no idea how many people that he may have threatened with obtaining nude photos. He stated that he does not remember all of the names, user names, or where these individuals reside.





- 17. On February 24, 2015, the affiant served a DHS Summons on MeetMe for Registration Data, Account Notes, Connection Log, Profile Pictures for the following accounts:
- 18. On February 24, 2015, the affiant served a DHS Summons on Skype Communications for registration details: to include information captured at time of account registration and current e-mail address; Billing Address: User provided billing addresses; SkypeIn Current Subscription: List of SkypeIn numbers currently subscribed to by a User; Purchase History: Financial transactions conducted with Skype including billing addresses provided; Skype Out Records: Historical call detail records for calls placed to the public switched telephone network (PSTN); SkypeIn Records: Historical call detail records for calls placed from the public switched telephone network (PSTN); SMS Records: SMS text message historical detail records; Skype Wi-Fi Records: Historical Skype Wi-Fi records; E-mail & Password Records: Historical record of e-mail and password change activity for the Skype

username:

known customer names and email addresses and account creation dates for the account holders associated with the Kik usernames

IP addresses used by the account holders associated with the Kik usernames

and

Transaction histories for the account holders associated with the Kik usernames

and

Device type and manufacturer associated with the Kik usernames

and

"Elokowski" was the Kik username utilized by

to communicate MV1. The username

was obtained from the forensics conducted on MV1's cell phone.

20. On February 25, 2015, the affiant received a response to the aforementioned DHS Summons from Kik Interactive, Inc. Kik Interactive provided the following information:

First Name: deleted Last Name: deleted Email: Username: EST CLIENT_VERSION 7.9.0.5000 EST USER_LOCATION US (city: Twinsburg, lat: 41.3152, long: -81.4405, tz: America/New_York, ip: 76.188.82.184) EST REGISTRATION_TIMESTAMP 2014/12/17 19:41:15 EST USER LOCALE en EST REGISTRATION_CLIENT_INFO birthday= EST REGISTRATION CLIENT INFO country-code=US EST REGISTRATION_CLIENT_INFO device-type=iphone EST REGISTRATION_CLIENT_INFO lang=en EST REGISTRATION_CLIENT_INFO model=iPhone EST REGISTRATION_CLIENT_INFO prefix=CIP EST REGISTRATION_CLIENT_INFO system-version=8.1.2 EST REGISTRATION_CLIENT_INFO version=7.9.0.5000

- 21. On February 25, 2015, the affiant received a call from MeetMe, Inc. The representative of MeetMe advised that the profiles for the usernames laurenjapski and erinlakowski had been deleted by the user and no information would be available.
- Protocol (IP) Address for which was provided by Kik Intercative, 76.188.82.184.

 The query was conducted on whatismyipaddress.com. The following information was obtained:

IP: 76.188.82.184

Hostname: cpe-76-188-82-184.neo.res.rr.com

ISP: Time Warner Cable

Organization: Time Warner Cable

Services: None detected

Type: Broadband

Assignment: Dynamic IP.

23. On February 27, 2015, the affiant received a response to the DHS Summons, referenced herein, from MeetMe, Inc. MeetMe provided the following information for the MeetMe userID 112882359:

member id: 112882359

signed_up_at: 12/17/2014 20:56

registered_at: 12/17/2014 8:56:09 PM

born_on: 4/17/1996

registration_ip_address: 76.188.82.184

country_code: US

removed_at: 12/21/2014 5:39:13 AM

email_address:

removal_reason: User Self-Delete

logged_in_at ip address device_type_name 12/17/2014 76.188.82.18 20:56 4 iphone 12/17/2014 76.188.82.18 20:58 iphone 12/17/2014 76.188.82.18 21:30 iphone 12/18/2014 76.188.82.18 5:24 iphone

	12/18/2014	4	70.208.200.5	
9:3		1		iphone
10:	12/18/2014 57		70.208.200.5	
10	12/18/2014	1	70.208.200.5	iphone
13:3	39	1	. 0.200.200.5	iphone
16:0	12/18/2014		76.188.82.18	
10.0	12/18/2014	4	76.188.82.18	iphone
19:5	54	4	7 01200.02.10	iphone
20:0	12/18/2014		76.188.82.18	
20.0	12/18/2014	4	76.188.82.18	iphone
21:0		4	70.100.02.10	iphone
1.27	12/19/2014		76.188.82.18	
1:27	12/19/2014	4	76.188.82.18	iphone
2:07		4	70.100.02.10	iphone
2.55	12/19/2014		76.188.82.18	
2:56	12/19/2014	4	76.188.82.18	iphone
2:56	//	4	70.100.02.18	iphone
12.04	12/19/2014		70.208.200.5	· p···e·i·e
13:01	12/19/2014	1	76 100 02 10	iphone
16:31		4	76.188.82.18	iphone
4= 4=	12/19/2014		76.188.82.18	iphone
17:12	12/19/2014	4	75 100 00 10	iphone
23:25		4	76.188.82.18	iphone
	12/20/2014		76.188.82.18	iprione
0:03	12/20/2014	4	70.400.00	iphone
5:34	12/20/2014	4	76.188.82.18	iphone
	12/20/2014		76.188.82.18	ipriorie
6:10	12/20/2014	4		iphone
10:17	12/20/2014	4	76.188.82.18	i=h
	12/20/2014	-	70.208.200.5	iphone
11:08	12/22/22/	1		iphone
18:39	12/20/2014	0	70.194.230.5	In b
	12/21/2014	•	76.188.82.18	iphone
4:59	40/04/5-	4		iphone
	12/21/2014		76.188.82.18	iphone

5:37 4 12/21/2014 76.188.82.18 5:38 4 **Iphone**

The registration IP Address was at approximately the same time and same date as KIK referenced herein.

24. On March 9, 2015, the affiant received a response to the aforementioned DHS Summons from Skype Communications referenced herein. Skype Communications provided the following account registration information for the Skype username:

Username:

Acct Creation Time (in UTC): 2014-12-19 17:29:26.143 UTC

Acct Creation IP: 70.208.200.51

Acct Creation IP Country: United States

Current Email Address:

Language At Reg: en

Skype Communications also provided the following password change information:

Username:

Change Date (in UTC): 2014-12-19 17:29:26.143 UTC

Change Type: email

New Value:

IP Address:

25. On March 17, 2015, the affiant served a DHS Summons on Time Warner Cable for name, address, local and/or long distance telephone number, connection records or records of session times, duration, length of service (including start date) and types of services utilized; telephone or instrument number or other subscriber number or identity, including and temporary assigned network address; means of source of payment for such service (including any credit card and/or bank account number) for the following IP Address:

76.188.82.184 on 12/17/2014 8:56:09 PM EST

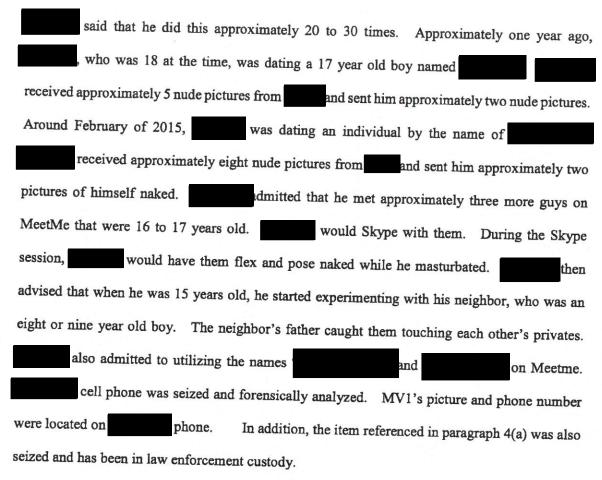
This was the registration IP Address and time from the information received from MeetMe referenced herein.

On March 18, 2015, the affiant received a response to the aforementioned DHS 26. Summons from Time Warner Cable. Time Warner Cable provided the following account registration information for the aforementioned IP Address referenced herein.

Target Details 76.188 82 184 Subscriber Name: Subscriber Address: Service Type - RR HSD Activate Date: 8/31/2013 Deactivate Date: Still Active User Name or Features: Phone number:

27.

On May 27, 2015, a federal search was executed at the residence of The affiant and another HSI SA interviewed read and signed a Statement of Rights form. advised that he understood his rights and agreed to talk to the SAs. advised that he was previously arrested by Twinsburg Police Department in 2014 for Extortion. He was sentenced to approximately one year of probation. was 17 at the time. He was trading naked pictures, but he "thought it was cool because they were both underage". He admitted that he threatened individuals to get naked pictures. During this incident, he traded with an individual by the name of but did not know his last name. Since December of 2014. created fake profiles of 17/18 year old females on Meetme using his IPhone. He received a lot of responses from individuals above and below 18 years old. No less than 30 of the conversations and no more than 80 of the guys were below the age of 18. They would send pictures of themselves of their full body naked. would then request more pictures of the victim's flexing. If the victims did not send more pictures of themselves naked, would briefly upload the nude image to Twitter and then take a picture of the Twitter page. would then tell the victim that if they did not send him more pictures of themselves naked, then he would share the Twitter page with the victim's friends.



- 28. Based upon my knowledge, experience, and training in child exploitation investigations, and the training and experience of other law enforcement officers with whom I have had discussions, I know that there are certain characteristics common to individuals involved in these offenses:
 - a. Those involved in the sexual exploitation of children may receive sexual gratification, stimulation, and satisfaction from contact with children; or from fantasies they may have viewing children engaged in sexual activity or in sexually suggestive poses, such as in digital images, videos, or other visual media.
 - b. Those involved in the sexual exploitation of children may collect

sexually explicit or suggestive materials, in a variety of electronic media. Individuals oftentimes use these materials for their own sexual arousal and gratification. Likewise, those involved in the sexual exploitation of children often maintain their cache in a digital or electronic format in a safe, secure and private environment, such as a computer or other electronic media.

- c. Those involved in the sexual exploitation of children often possess and retain their correspondence with their victims in the privacy and security of their home or some other secure location. These individuals typically retain this correspondence for many years.
- 29. There is probable cause to believe that the electronically stored information described in Attachment B may be recorded on the Device described in Attachment A. Your Affiant believes that the Device may contain evidence of the crimes referenced above.
- 30. The Devices are currently in the lawful possession of HSI. Therefore, HSI might already have all necessary authority to examine the Device, I seek this additional warrant out of an abundance of caution to be certain that an examination of the Devices will comply with the Fourth Amendment and other applicable laws.
- 31. I know that the Device has been stored in a manner in which its contents are, to the extent material to this investigation, in substantially the same state as they were when the Device first came into the possession of HSI.

TECHNICAL TERMS

- 32. Based on my training and experience, I use the following technical terms to convey the following meanings:
 - a. Hard Disk Drive(s) ("HDD"): are devices used for storing and retrieving

- digital information. It is the customary device used for storage and secondary storage of data.
- b. Internet: The Internet is a global network of computers and other electronic devices that communicate with each other. Due to the structure of the Internet, connections between devices on the Internet often cross state and international borders, even when the devices communicating with each other are in the same state.
- 33. In my training and experience, examining data stored on devices described in Attachment A, can uncover, among other things, evidence that reveals or suggests who possessed or used the devices and/or evidence of criminal acts and/or contraband.

ELECTRONIC STORAGE AND FORENSIC ANALYSIS

- 34. Based on my knowledge, training, and experience, I know that electronic devices can store information for long periods of time. Similarly, things that have been viewed via the Internet are typically stored for some period of time on these devices. This information can sometimes be recovered with forensics tools.
- 35. There is probable cause to believe that things that were once stored on the electronic devices may still be stored there, for at least the following reasons:
 - a. Based on my knowledge, training, and experience, I know that computer files or remnants of such files can be recovered months or even years after they have been downloaded onto a storage medium, deleted, or viewed via the Internet. Electronic files downloaded to a storage medium can be stored for years at little or no cost. Even when files have been deleted, they can be recovered months or years later using forensic tools. This is so because when a person "deletes" a file on a

- computer, the data contained in the file does not actually disappear; rather, that data remains on the storage medium until it is overwritten by new data.
- b. Therefore, deleted files, or remnants of deleted files, may reside in free space or slack space—that is, in space on the storage medium that is not currently being used by an active file—for long periods of time before they are overwritten. In addition, a computer's operating system may also keep a record of deleted data in a "swap" or "recovery" file.
- c. Wholly apart from user-generated files, computer storage media—in particular, computers' internal hard drives—contain electronic evidence of how a computer has been used, what it has been used for, and who has used it. To give a few examples, this forensic evidence can take the form of operating system configurations, artifacts from operating system or application operation, file system data structures, and virtual memory "swap" or paging files. Computer users typically do not erase or delete this evidence, because special software is typically required for that task. However, it is technically possible to delete this information.
- d. Similarly, files that have been viewed via the Internet are sometimes automatically downloaded into a temporary Internet directory or "cache."
- 36. As further described in Attachment B, this application seeks permission to locate not only electronically stored information that might serve as direct evidence of the crimes described on the warrant, but also forensic evidence that establishes how the devices were used,

the purpose of its use, who used it, and when. There is probable cause to believe that this forensic electronic evidence might be on the devices because:

- a. data on the storage medium can provide evidence of a file that was once on the storage medium but has since been deleted or edited, or of a deleted portion of a file (such as a paragraph that has been deleted from a word processing file). Virtual memory paging systems can leave traces of information on the storage medium that show what tasks and processes were recently active. Web browsers, e-mail programs, and chat programs store configuration information on the storage medium that can reveal information such as online nicknames and passwords. Operating systems can record additional information, such as the attachment of peripherals, the attachment of USB flash storage devices or other external storage media, and the times the computer was in use. Computer file systems can record information about the dates files were created and the sequence in which they were created.
- b. Forensic evidence on a device can also indicate who has used or controlled the device. This "user attribution" evidence is analogous to the search for "indicia of occupancy" while executing a search warrant at a residence.
- c. A person with appropriate familiarity with how an electronic device works may, after examining this forensic evidence in its proper context, be able to draw conclusions about how electronic devices were used, the purpose of their use, who used them, and when.
- d. The process of identifying the exact electronically stored information

on a storage medium that are necessary to draw an accurate conclusion is a dynamic process. Electronic evidence is not always data that can be merely reviewed by a review team and passed along to investigators. Whether data stored on a computer is evidence may depend on other information stored on the computer and the application of knowledge about how a computer behaves. Therefore, contextual information necessary to understand other evidence also falls within the scope of the warrant.

- e. Further, in finding evidence of how a device was used, the purpose of its use, who used it, and when, sometimes it is necessary to establish that a particular thing is not present on a storage medium.
- f. I know that when an individual uses an electronic device to store evidence related to child exploitation, the individual's electronic device will generally serve both as an instrumentality for committing the crime, and also as a storage medium for evidence of the crime. The electronic device is an instrumentality of the crime because it is used as a means of committing the criminal offense. The electronic device is also likely to be a storage medium for evidence of crime. From my training and experience, I believe that an electronic device used to commit a crime of this type may contain: data that is evidence of how the electronic device was used; data that was sent or received; and other records that indicate the nature of the offense.
- 37. Nature of Examination. Based on the foregoing, and consistent with Rule 41(e)(2)(B), the warrant I am applying for would permit the examination of the devices as

referenced in Attachment A consistent with the warrant. The examination may require authorities to employ techniques, including but not limited to computer-assisted scans of the entire medium, that might expose many parts of the devices to human inspection in order to determine whether it is evidence described by the warrant.

38. Manner of Execution. Because this warrant seeks only permission to examine the devices already in law enforcement's possession, the execution of this warrant does not involve the physical intrusion onto a premises. Consequently, I submit there is reasonable cause for the Court to authorize execution of the warrant at any time in the day or night.

CONCLUSION

39. I submit that this affidavit supports probable cause for a search warrant authorizing the examination of the Devices described in Attachment A to seek the items described in Attachment B.

Jason G. Kearns, Special Agent Homeland Security Investigations

Subscribed and sworn to before me this 13 day of January, 2017via electronic means.

HON. STEPHANIE K. BOWMAN UNITED STATES MAGISTRATE JUDGE

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ATTACHMENT A

The property to be searched:

1. A Toshiba Satellite P745 laptop bearing serial number 2C382319K

This warrant authorizes the forensic examination of the above property for the purpose of identifying the electronically stored information described in Attachment B.

ATTACHMENT B

All evidence on the Device described in Attachment A that relate to:

- 1. Violations of 18 U.S.C. §§ 2251(a), 2252 and 2252A.
- 2. Evidence related to sexual interest in minors, including but not limited to images and videos of minors engaged in sexually explicit conduct.